

CLAIMS

Claim 1 (currently amended): A device for dispensing CO₂, that is to say carbon or carbon dioxide, which can be fitted in aquariums or containers for holding live fish, this device consisting of a dispenser casing (11) or body, ~~characterised in that wherein~~ the dispenser body (11) is equipped with a mixing chamber (15) into which a flow of water is delivered by a pump (12) and a flow of CO₂ from an infeed duct (18); the mixing chamber (15) being bordered by at least one filtering element (13) which occupies the lower half of the dispenser body (11), which can also be closed by a mesh cover (14).

Claim 2 (currently amended) ~~A-The device for dispensing CO₂ according to the previous claim, characterised in that of claim 1, wherein~~ the filtering element (13) ~~consists of~~ comprises a sponge with a consistency of around 20ppi, this sponge occupying approximately all the lower half of the dispenser body, in a part opposite the area where the pump (12) is fitted.

Claim 3 (currently amended) ~~A-The device for dispensing CO₂ according to either of the previous claims, characterised in that of claim 1, wherein~~ the filtering element (13) ~~consists of~~ comprises any material of any kind and density which is able to retain the microbubbles and allow only the water in which the CO₂ is dissolved to pass through.

Claim 4 (currently amended) ~~A-The device for dispensing CO₂ according to either of the previous claims, characterised in that the of claim 1, wherein said~~ flow of water delivered by the pump (12) through the inlet duct (16), placed in a substantially horizontal position inside the mixing chamber (15), is substantially at right angles to the CO₂ injector (17) which is, instead, arranged vertically with the gas delivery zone positioned in correspondence with the water output zone.

Claim 5 (currently amended) ~~A-The device for dispensing CO₂ according to either of the previous claims, characterised in that the of claim 1, wherein said~~ flow of water delivered by the pump (12) is mixed with the flow of gas delivered by the injector (17), since the water and gas meet at right angles to each other at the start of the mixing chamber (15).

Claim 6 (currently amended) ~~A~~The device for dispensing CO₂ according to either of the previous claims, characterised in that of claim 1, wherein inside the mixing chamber (15) the pump (12) creates a turbulent movement causing the formation of microbubbles of CO₂, which are retained inside the dispenser by the sponge (13) and then distributed in the water, mixing perfectly with it.

Claim 7 (currently amended) ~~A~~The device for dispensing CO₂ according to either of the previous claims, characterised in that the of claim 1, wherein said flow created by the pump (12) establishes a continuous cycle of CO₂-poor water (A) which enters the dispenser (11), and CO₂-rich water (B) which exits from the opposite end through the mesh cover (12), thus ensuring a uniform concentration of carbon dioxide in the tank.